

Regional Service Through Unity

Meeting our Region's Needs Today and Tomorrow

Wylie City Council Briefing

June 13, 2023

Jenna Covington, NTMWD Executive Director and General Manager

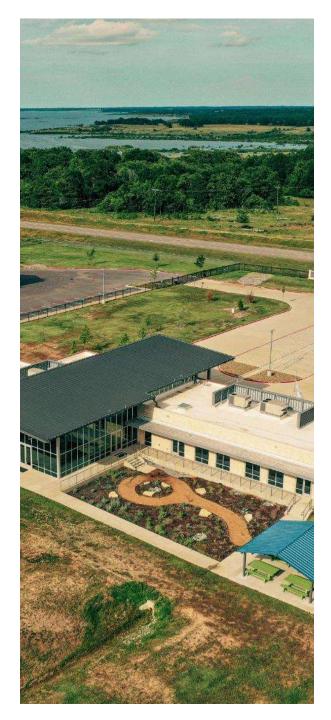


Overview

- Who We Are
- Overview of Services
- Key Regional Projects
- Projects Supporting Wylie
- Water Supply Planning
- Strategic Financial Plans
- Wrap-up and Questions







"We decided we were all in this together. We couldn't do it separately."

~ from Gift of Water, Legacy of Service: A History of North Texas Municipal Water District

13 MEMBER CITIES

Allen | Farmersville | Forney | Frisco | Garland | McKinney | Mesquite | Plano | Princeton | Richardson | Rockwall | Royse City | Wylie

1951

Created by Texas Legislature to Provide Water Service **1956**

Began Providing Treated WATER to Member Cities

1970s

Expanded to WASTEWATER Services

1980s

Expanded to SOLID WASTE Service



OUR VISION

Regional Service Through Unity: Meeting Our Region's Needs Today And Tomorrow

OUR MISSION

Provide high quality and dependable water, wastewater and solid waste services in a costefficient manner

OUR GOALS

SERVICE

Provide superior water, wastewater and solid waste services today and tomorrow

STEWARDSHIP

Responsibly manage public resources to ensure responsiveness, effectiveness and efficiency

PARTNERSHIP

Actively collaborate with members, customers, partners, employees and stakeholders

PEOPLE

Build a talented, competent and committed team

OUR CORE VAULES

INTEGRITY

We are honest, transparent and accountable for what we say and do.

TRUST

We are relied on to serve our customers' best in interest.

RESPECT

We treat others fairly and with courtesy and kindness.

UNITY

We do what's best for our region – all-in together!

SAFETY

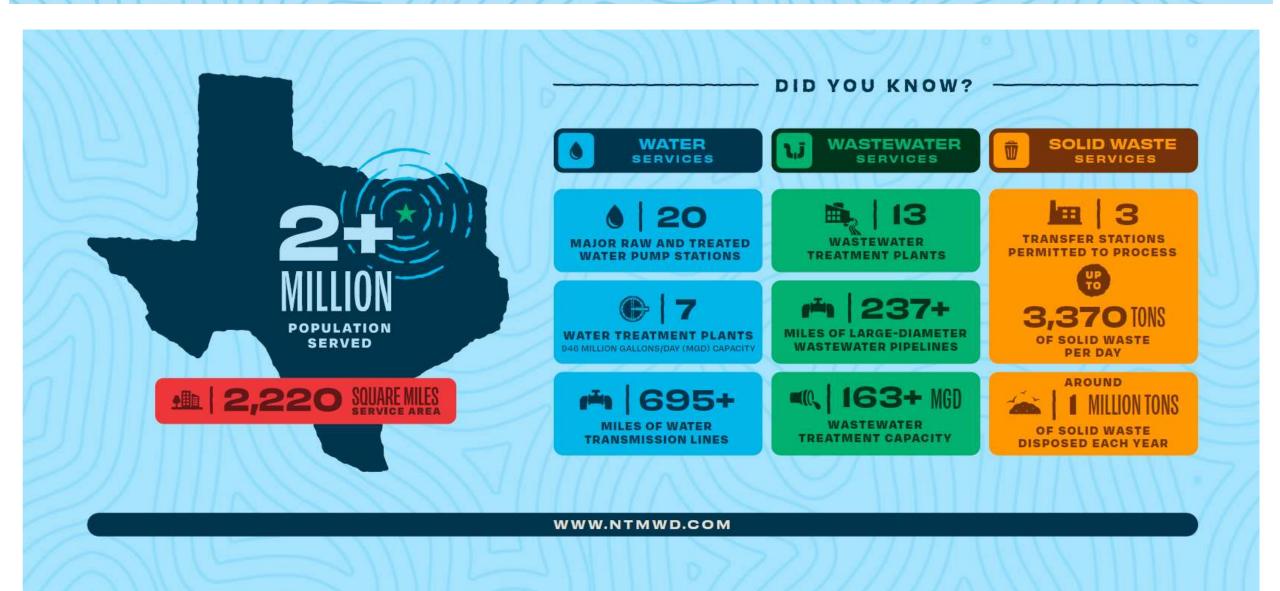
We look out for each other to prevent accidents and protect public health and environment.

TEAMWORK

We cooperate and collaborate to meet our region's needs.



BY THE NUMBERS





ACCOMPLISHMENTS AND RECOGNITION



2023 Large System **Exemplary Source Water Protection Award**





Safety Award







WATER ESSENTIAL FOR ECONOMIC GROWTH



State Farm - Richardson



General Dynamics - Mesquite





The Dallas News

Kaufman County is the fastest Morning growing county in the country





RESIDENTIAL REAL ESTATE

Over 1,900 homes planned in Collin

Green Brick Partners buys Princeton land for houses to buy, rent

clude up to L762 single-fami- ing to Green Brick.

ly homes for sale, 225 single- 'As we look for new oppor- mer.

family homes for rent, parks tunities, we really felt like this Jordan Cortez and Mason



Dominion of Pleasant Valley - Wylie



Gateway Oaks- Forney



Del Webb Trinity Falls – McKinney



FOCUSED ON SERVING A GROWING REGION

City	1950	1960	1970	1980	1990	2000	2010	2020
Allen		659	1,940	8,314	18,309	43,554	84,246	104,627
Farmersville	1,955	2,021	2,311	2,360	2,640	3,118	3,301	4,160
Forney	1,425	1,544	1,745	2,483	4,070	5,588	14,661	23,455
Frisco	736	1,184	1,845	3,420	6,138	33,714	116,989	200,509
Garland	10,291	38,501	81,437	138,857	180,635	215,768	226,876	246,018
McKinney	10,560	13,763	15,193	16,249	21,283	54,369	131,117	195,308
Mesquite	1,684	27,526	55,131	67,053	101,484	124,523	139,824	150,108
Plano	2,115	3,695	17,872	72,331	127,885	222,030	259,841	285,494
Princeton	540	594	1,105	3,408	2,321	3,477	6,807	17,027
Richardson	1,289	16,810	48,405	72,496	74,840	91,802	99,223	119,469
Rockwall	1,501	2,166	3,121	5,939	10,486	17,976	37,490	47,251
Royse City	1,266	1,274	1,535	1,566	2,206	2,957	9,349	13,508
Wylie	1,295	1,804	2,675	3,152	8,716	15,132	41,427	57,526

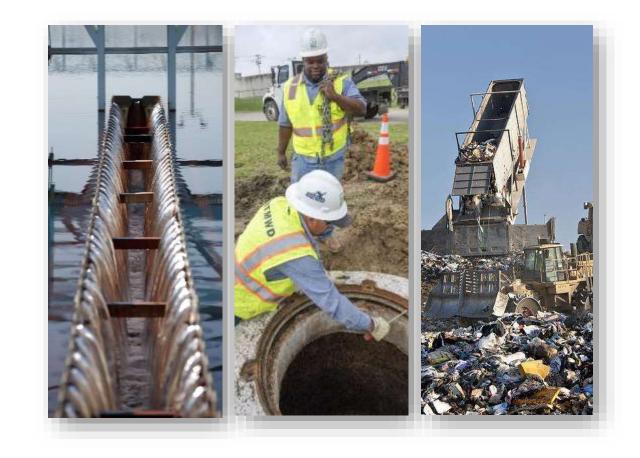
NTMWD Total Population Served: Historical and Projected

Year	1956	1974	1994	2015	2025	2040	2060	2080
Population Served	32,000	200,000	800,000	1.6 M	2.2 M	3 M	4 M	4.5 M



Overview

- Who We Are
- Overview of Services
- Key Regional Projects
- Projects Supporting Wylie
- Water Supply Planning
- Strategic Financial Plans
- Wrap-up and Questions



Billy George, PE Deputy Director - Water and Wastewater

WATER SERVICES

Existing Water Supply Sources

Lavon Lake
 Lake Tawakoni

- Bois d'Arc Lake - Jim Chapman Lake

Lake Texoma
 Reuse/Wetland

(East Fork and Main Stem)

Wylie Water Treatment Plant

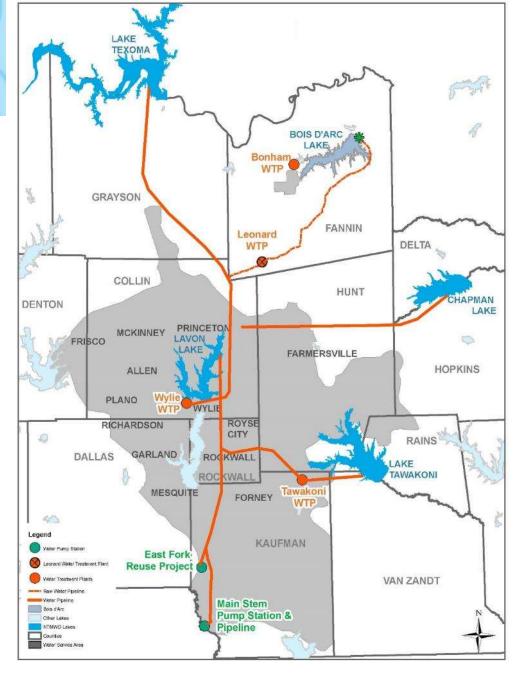
-	Wylie WTP I	70 MGD
-	Wylie WTP II	280 MGD
-	Wylie WTP III	280 MGD
-	Wylie WTP IV	210 MGD
	TOTAL	840 MGD

Leonard Water Treatment Plant 70 MGD

Bonham Water Treatment Plant 6 MGD

Tawakoni Water Treatment Plant 30 MGD

TOTAL PERMITTED CAPACITY 946 MGD



WASTEWATER TREATMENT SYSTEMS

Regional Wastewater System

- Wilson Creek WWTP 64.00 MGD

South Mesquite WWTP 33.00 MGD

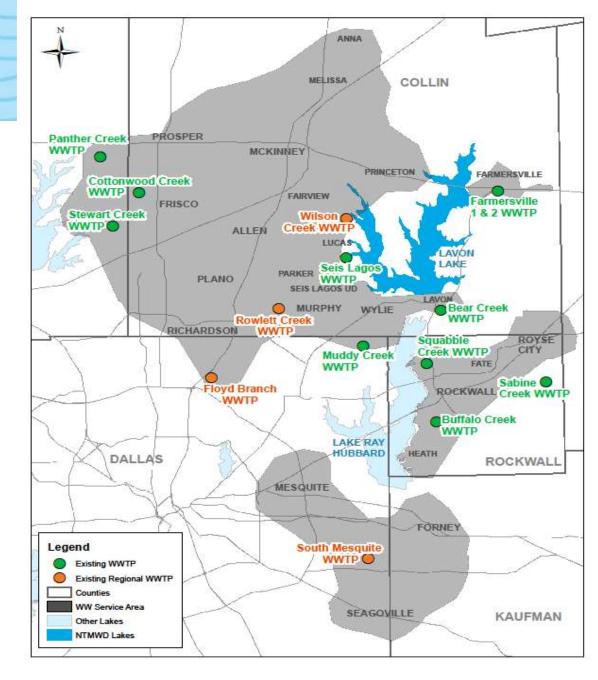
- Rowlett Creek WWTP 24.00 MGD

- Floyd Branch WWTP 4.75 MGD

TOTAL 125.75 MGD

Sewer System Plants

- Number of Sewer System Plants in Operation: 9
- Total Sewer System Capacity: 34 MGD
- Each plant is separate independent system and contracts
- Total Wastewater Treatment Capacity: 159.45 MGD





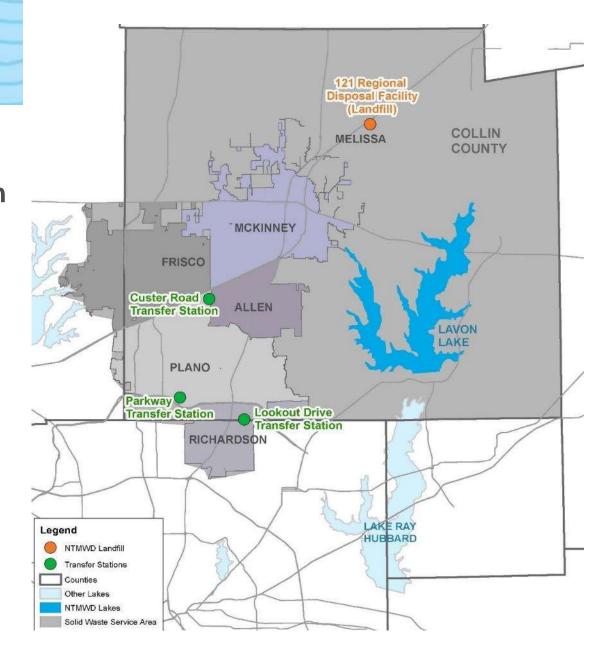
Entities Served: Allen, Frisco, McKinney, Plano, Richardson & the Surrounding Region

Transfer Stations: 3

Transfer Station Throughput: 3,370 tons/day

Landfill: 121 Regional Disposal Facility (Melissa)

- Site Capacity 134,800,000 cubic yards
- Permitted Area 673 acres
- Permitted Fill Area 433 acres
- Approximate Site Life 38 years
- Waste acceptance 3,800 tons/day





KEY PROJECTS - BOIS D'ARC LAKE/LEONARD WTP

Bois d'Arc Lake

- First major reservoir constructed in Texas in over 30 years
- Construction began May 2018
- Dedication in October 2022

Leonard Water Treatment Plant

- Phase I (70 MGD) completed
- Water delivery began March 2023
- Phase II (70 MGD) to begin construction by end of year
- Ultimate capacity 280 MGD





KEY PROJECTS – SISTER GROVE RWRRF

- Planned Water Resource Recovery Facility to meet growing regional treatment capacity needs
- Located on 1,000 acres near the FM 2933 and CR 336 intersection – north of New Hope
- NTMWD received TCEQ permit in April 2020
- \$460 million low-interest (0.155%) funding from TWDB; Will save approx. \$160 million for NTMWD and ratepayers
- Expected completion 2025





Aging Infrastructure Needs Repairs and Upgrades

- Master planning efforts prioritizing improvements at major facilities across the region
- Wylie Plant I (66-year-old facility) recently rehabbed and in service
- Ongoing repairs/replacement of older pipes, pumps and facilities to ensure reliability and public safety
- Senate Bill 3 and water resilience requirements











Overview

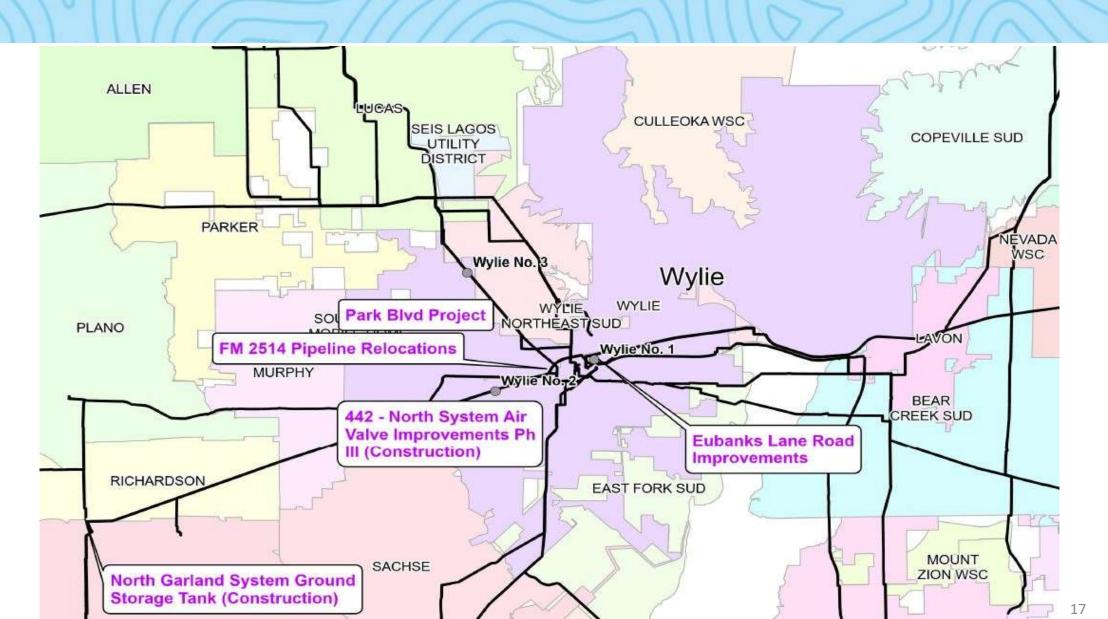
- Who We Are
- Overview of Services
- Key Regional Projects
- Projects Supporting Wylie
- Water Supply Planning
- Strategic Financial Plans
- Wrap-up and Questions



R.J. Muraski, PMP Assistant Deputy – CIP and Planning

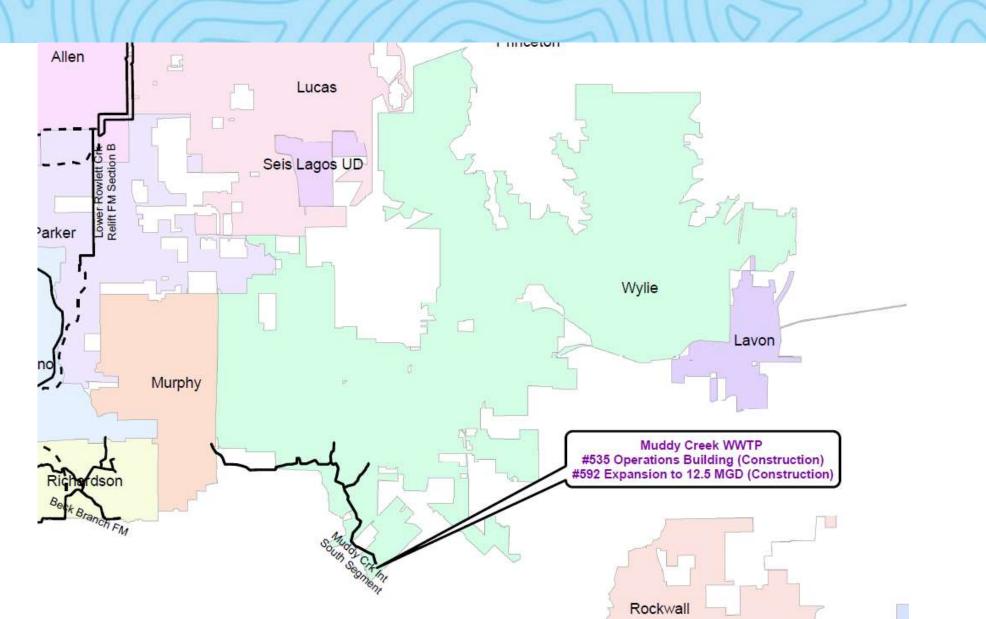


WYLIE PROJECTS - WATER





WYLIE PROJECTS – WASTEWATER

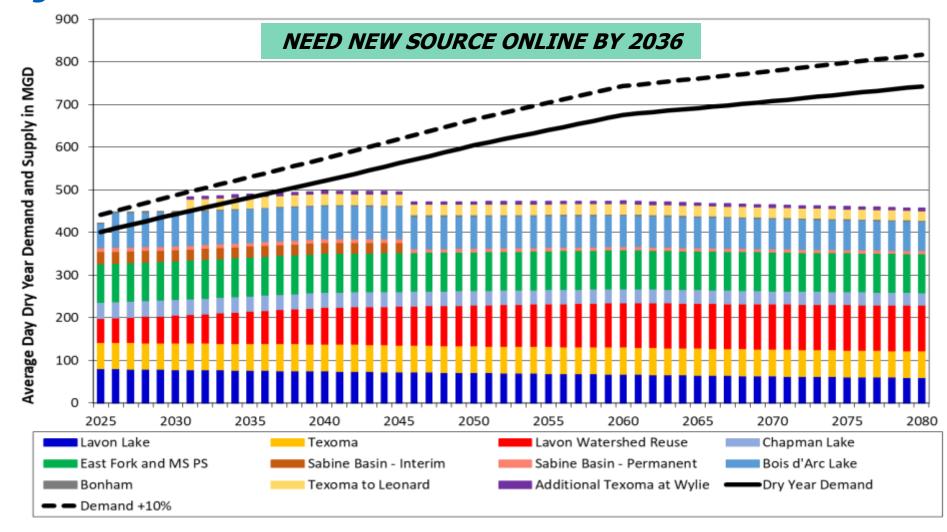


18

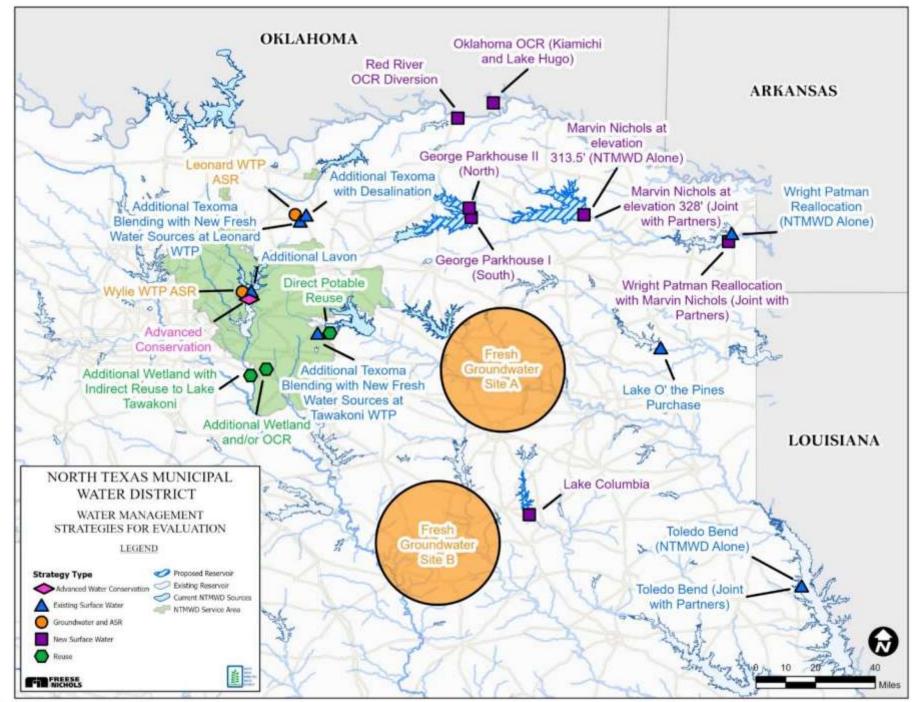


LONG RANGE WATER SUPPLY PLANNING

Through 2080

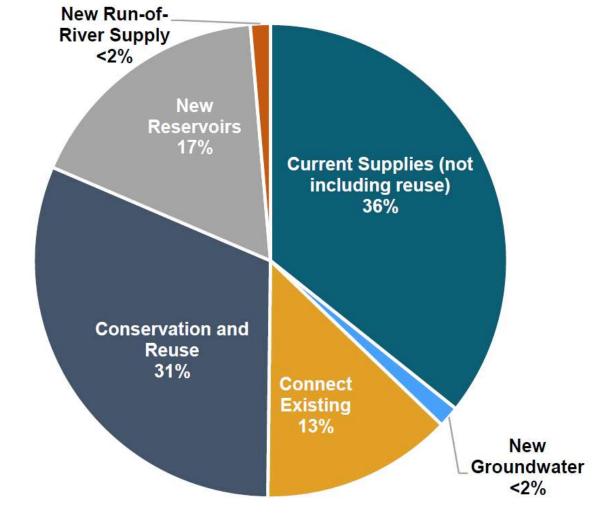






Future Supplies

- Conservation and Reuse = 31%
- New Supplies = 18%



2021 Region C Water Plan Sources of Water Available to Region C as of 2070



Important Part of Water Supply

- Critical strategy for maximizing supplies
- Helped defer approximately \$1 billion in projects
- Award-winning outreach programs:
 - Water4Otter.org
 Elementary school education program
 - WaterMyYard.org
 Free weekly water advice based on location and real-time weather data
 - WaterIsAwesome.com
 Regional campaign with Tarrant Regional
 Water District and Dallas Water Utilities







Overview

- Who We Are
- Overview of Services
- Key Regional Projects
- Projects Supporting Wylie
- Water Supply Planning
- Strategic Financial Plans
- Wrap-up and Questions



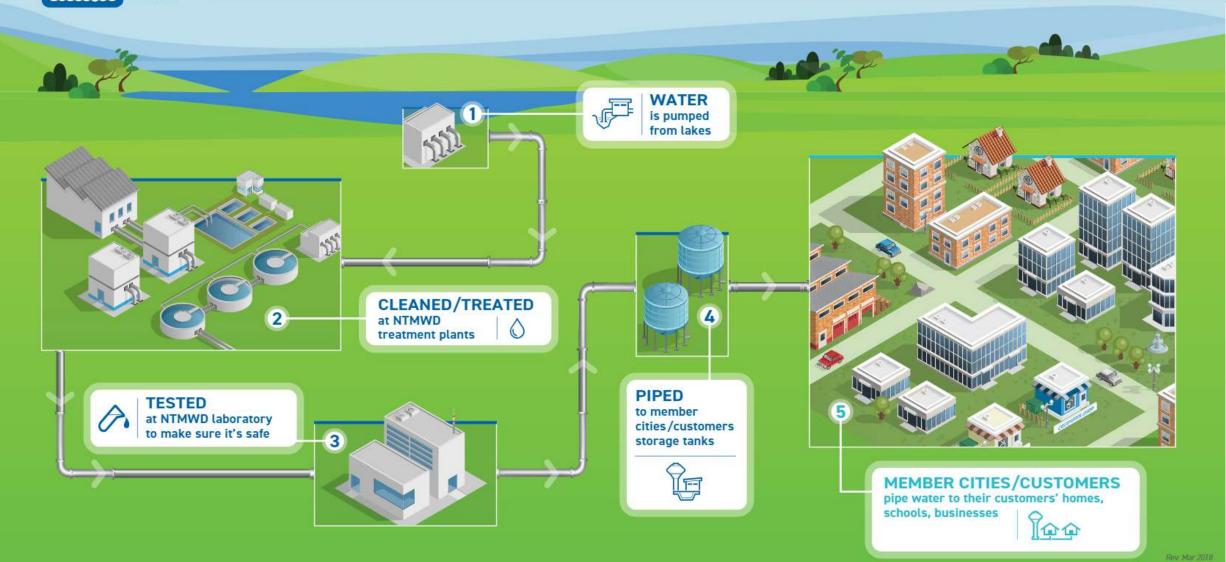


Jenna Covington
Executive Director/General Manager



GETTING WATER TO YOU

Shared Regional System Serves 80 North Texas Communities





KEY BUDGET DRIVERS

Capital Investment Requirements

- \$1.2B in issuance; debt service increase of \$38.5M over previous year
- Escalation of construction costs increased CIP by 17% last year
- Continue to engage with TWDB low interest funding and utilizing extended commercial to mitigate impact

Interest Rates

- Interest rates have increased ~25% since last year
- Anticipated market volatility

Chemical Costs

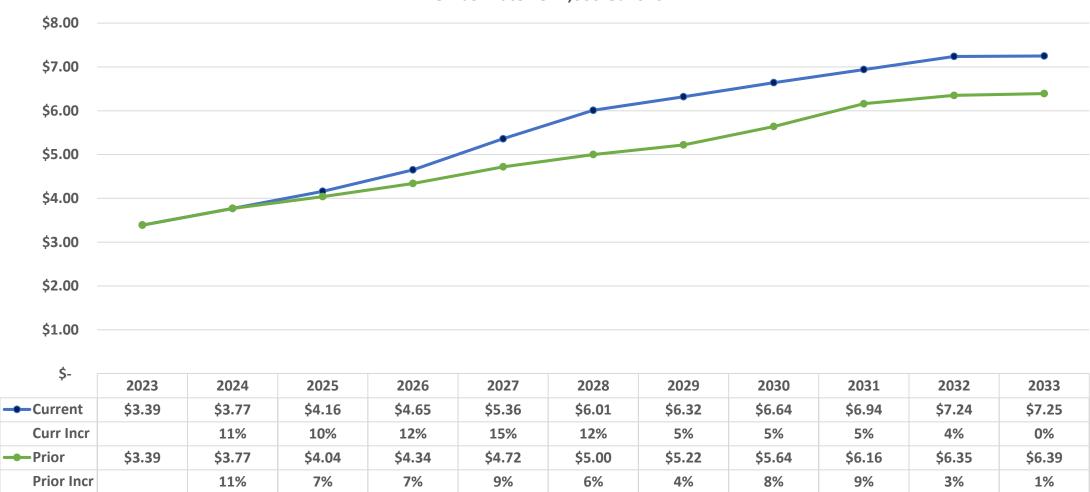
- Volatility and supply has calmed since last year
- Prices are still at historic highs





WATER RATES

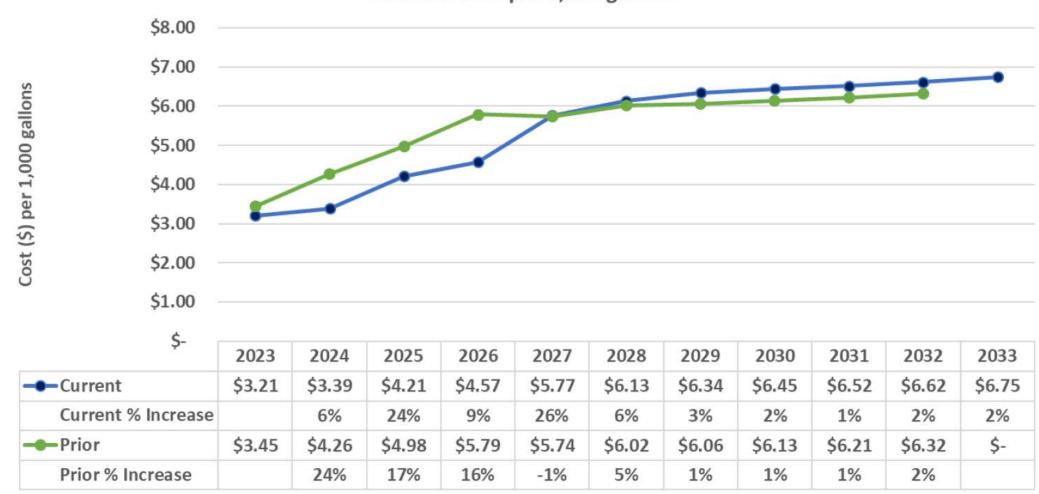
NTMWD Regional Water System Member Rate Per 1,000 Gallons





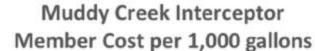
MUDDY CREEK WWTP RATES

Muddy Creek Wastewater Treatment Plant Member Cost per 1,000 gallons





MUDDY CREEK INTERCEPTOR RATE







CONSERVATION RESOURCES

